

Human HSD17B1 (Estradiol 17-beta-dehydrogenase 1) ELISA Kit | HSD17B1 elisa kit

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CATALOG #
AAA27593

REACTIVITY
Human

PRODUCT SYNONYMS

HSD17B1 (Estradiol 17-beta-dehydrogenase 1); Human HSD17B1 (Estradiol 17-beta-dehydrogenase 1) ELISA Kit; HSD17B1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of HS. No significant cross-reactivity or interference between HS and analogues is observed.
Sequence Length	328
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level HS were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level HS were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a HSD17B1 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain standard curve as per experiment by themselves. (N/A-not applicable)

X	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD450	2.878	2.208	1.991	1.436	1.137	0.667	0.448	0.242

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HSD17B1 elisa kit

Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been pre-coated with HS. During the reaction, HS in the sample or standard competes with a fixed amount of HS on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to HS. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. The concentration of HS in the samples is then determined by comparing the O D of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	823674326
NCBI GeneID	3292
Molecular Weight	34,950 Da
NCBI Official Full Name	HSD17B1, partial
NCBI Official Synonym Full Names	hydroxysteroid 17-beta dehydrogenase 1
NCBI Official Symbol	HSD17B1
NCBI Official Synonym Symbols	E2DH; HSD17; EDHB17; EDH17B2; SDR28C1; 17-beta-HSD; 20-alpha-HSD
NCBI Protein Information	estradiol 17-beta-dehydrogenase 1
UniProt Protein Name	Estradiol 17-beta-dehydrogenase 1
UniProt Gene Name	HSD17B1
UniProt Synonym Gene Names	E17KSR; EDH17B1; EDH17B2; EDHB17; SDR28C1; 17-beta-HSD 1; 20-alpha-HSD

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/hsd17b1-estradiol-17-beta-dehydrogenase-1/27593>